U.S Department of Interior Bureau of Indian Affairs	1. WORK PROJECT/ACTIVITY Oil & Gas Field Operations (Wildland fires)		Southern Ute Reservation	3. UNIT Southern Ute Agency
JOB HAZARD ANALYSIS (JHA) References-BIA Safety and Health Handbook	4. NAME OF ANALYST		5. JOB TITLE	6. DATE PRÉPARED
(Instructions on Reverse) 7. TASKS/PROCEDURES	Hov	vard Richards Jr. 8. HAZARDS	SUPV Forestry Technician 9. ABATEMENT ACTION	3/12/2009
7. TASKS/PROCEDURES		8. HAZARDS	9. ABATEMENT ACTIONS Engineering Controls * Substitution * Administrative Controls * PPE	
Driving		Unimproved Roads	Use Caution when driving on these roads as they may be narrow and have rolling hills with limited sight distance. Be aware of industry traffic and be on the lookout for oil and gas infrastructure. Avoid backing if possible and use a spotter when necessary. Avoid using these roads during rain storms and at least one half hour after the storm.	
Rights-of-ways		Hazardous Materials, High Pressure Pipelines and Industrial Equipment	Operations, staging areas, safety zones, engemergency vehicles should avoid the use of local dispatcher to notify the appropriate utility assume pipelines are buried deeply or are dimakers. Dozer operators and bosses need to Avoid backing if possible and use a spotter version of the stage o	rights-of-way. Ask your by representative. Do not rectly under their to be extremely cautious.
Well Pads		Open pits, dumps, anchor hooks, edges of the well pads, Oil and gas structures personnel, vehicles and equipment such as pump jacks, well heads, exposed high pressure pipe, separation vessels, and other miscalaneous materials	Always maintain situational awareness wher well pad. Seek out oil and gas personnel to condition of the surrounding oil and gas field of the owner, type of oil and gas facility, loca fire and any other information available pertafield and the fire. Be aware of open pits and as they may contain discharging gas. Avoid to fact that pump jacks, well heads may leak gases. Edges of pads are not compact enougeighted vehicles (engines, tenders) for long hooks and other miscellaneous materials materi	get information on s. Notify dispatch center tion in reference to the lining to the oil and gas dumps and their danger parking on well pads due toxic and/or flammable ligh to hold heavy g periods of time. Anchor ly be hard to see due to
Gases/Chemicals		Exposure to Hazardous Gas (Hydrogen Sulfide H2S, Methane Gas CH4) and other chemicals (drilling mud, caustics, solvents,gylcol, CO2, fuels)	Brief for Hazardous Materials and the dangers Gasses to personnel. If at all possible, avoid the Hazardous Gasses and Materials are present, the symptoms of H2S exposure. CPR and first provided to all fire personnel per agency policy at lower concentrations smells like "rotten egg headaches, eye disorders, nausea, vomiting, at higher concentrations it deadens sense of (parts per million) can paralyze the respiratory cunvulsions or death.	vorking in areas where Personnel must know It aid training will be It is a cause It is an cause

Gases/Chemicals (cont)	-H2S is explosive –as much as so possible, avoid sparks or ignition sourcesAvoid enclosed areasLook for warning signs on Oil & Gas padsAvoid low-lying areas such as ravines, ditches, or gullies – higher concentrations of deadly gases tend to accumulate in these areas.	sourcesAvoid enclosed areasLook for warning signs on Oil & Gas padsAvoid low-lying areas such as ravines, ditches, or gullies – higher	
10. LINE OFFICER SIGNATURE	11. TITLE 12. DATE		

/ JHA Instructions (References-BIA Safety and Health Handbook)

The JHA shall identify the location of the work project or activity, the name of employee(s) writing the JHA, the date(s) of development, and the name of the appropriate line officer approving it. The supervisor acknowledges that employees have read and understand the contents, have received the required training, and are qualified to perform the work project or activity.

Blocks 1, 2, 3, 4, 5, and 6: Self-explanatory.

- **Block 7:** Identify all tasks and procedures associated with the work project or activity that have potential to cause injury or illness to personnel and damage to property or material. Include emergency evacuation procedures (EEP).
- **Block 8:** Identify all known or suspect hazards associated with each respective task/procedure listed in block 7. For example:
 - a. Research past accidents/incidents
 - b. Research the Health and Safety Handbook or other appropriate literature.
 - c. Discuss the work project/activity with participants
 - d. Observe the work project/activity
 - e. A combination of the above
- **Block 9:** Identify appropriate actions to reduce or eliminate the hazards identified in block 8. Abatement measures listed below are in the order of the preferred abatement method:
 - Engineering Controls (the most desirable method of abatement).
 For example, ergonomically designed tools, equipment, and furniture.
 - b. Substitution. For example, switching to high flash point, non-toxic solvents.
 - c. Administrative Controls. For example, limiting exposure by reducing the work schedule; establishing appropriate procedures and practices.
 - d. PPE (least desirable method of abatement). For example, using hearing protection when working with or close to portable machines (chain saws, rock drills portable water pumps)
 - e. A combination of the above.
- **Block 10:** The JHA must be reviewed and approved by a line officer. Attach a copy of the JHA as justification for purchase orders when procuring PPE.

Blocks 11 and 12: Self-explanatory.

Emergency Evacuation Instructions

Work supervisors and crew members are responsible for developing and discussing field emergency evacuation procedures (EEP) and alternatives in the event a person(s) becomes seriously ill or injured at the worksite.

Be prepared to provide the following information:

- a. Nature of the accident or injury (avoid using victim's name).
- b. Type of assistance needed, if any (ground, air, or water evacuation)
- Location of accident or injury, best access route into the worksite (road name/number), identifiable ground/air landmarks.
- d. Radio frequency(s).
- e. Contact person.
- f. Local hazards to ground vehicles or aviation.
- g. Weather conditions (wind speed & direction, visibility, temp).
- h. Topography.
- i. Number of person(s) to be transported
- j. Estimated weight of passengers for air/water evacuation.

The items listed above serve only as guidelines for the development of emergency evacuation procedures.

JHA and Emergency Evacuation Procedures Acknowledgment

We, the undersigned work leader and crew members, acknowledge participation in the development of this JHA (as applicable) and accompanying emergency evacuation procedures. We have thoroughly discussed and understand the provisions of each of these documents:

SIG	INATURE	DATE	SIGNATURE	DATE
-				
	Work Leader			
-			-	
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